

APPENDIX A

SCAQMD Network Depictions



Figure 1 SCAQMD Ozone Monitoring Locations



Figure 2 SCAQMD PM10 Monitoring Locations

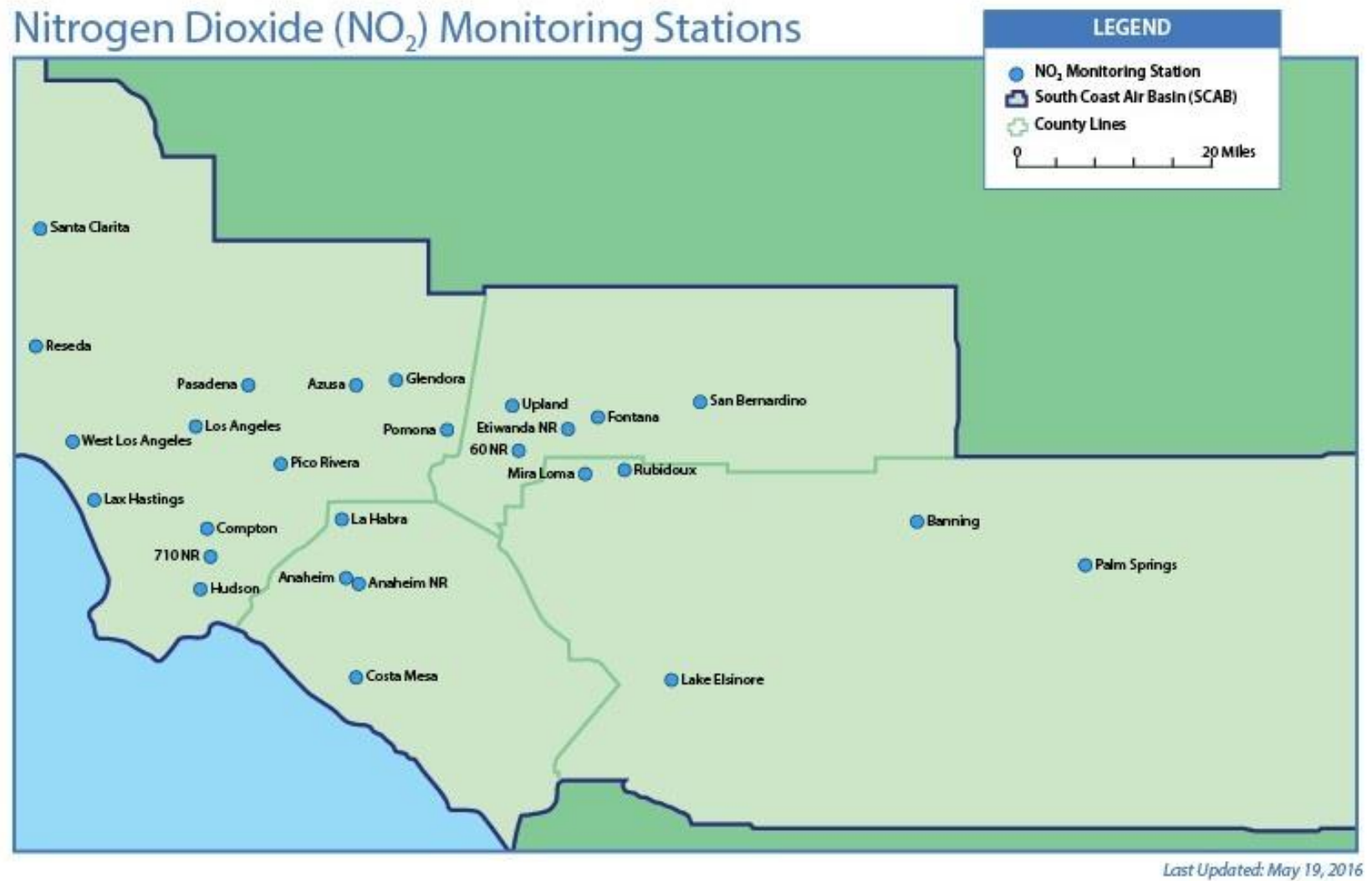


Figure 3 SCAQMD Monitoring Locations for Nitrogen Dioxide

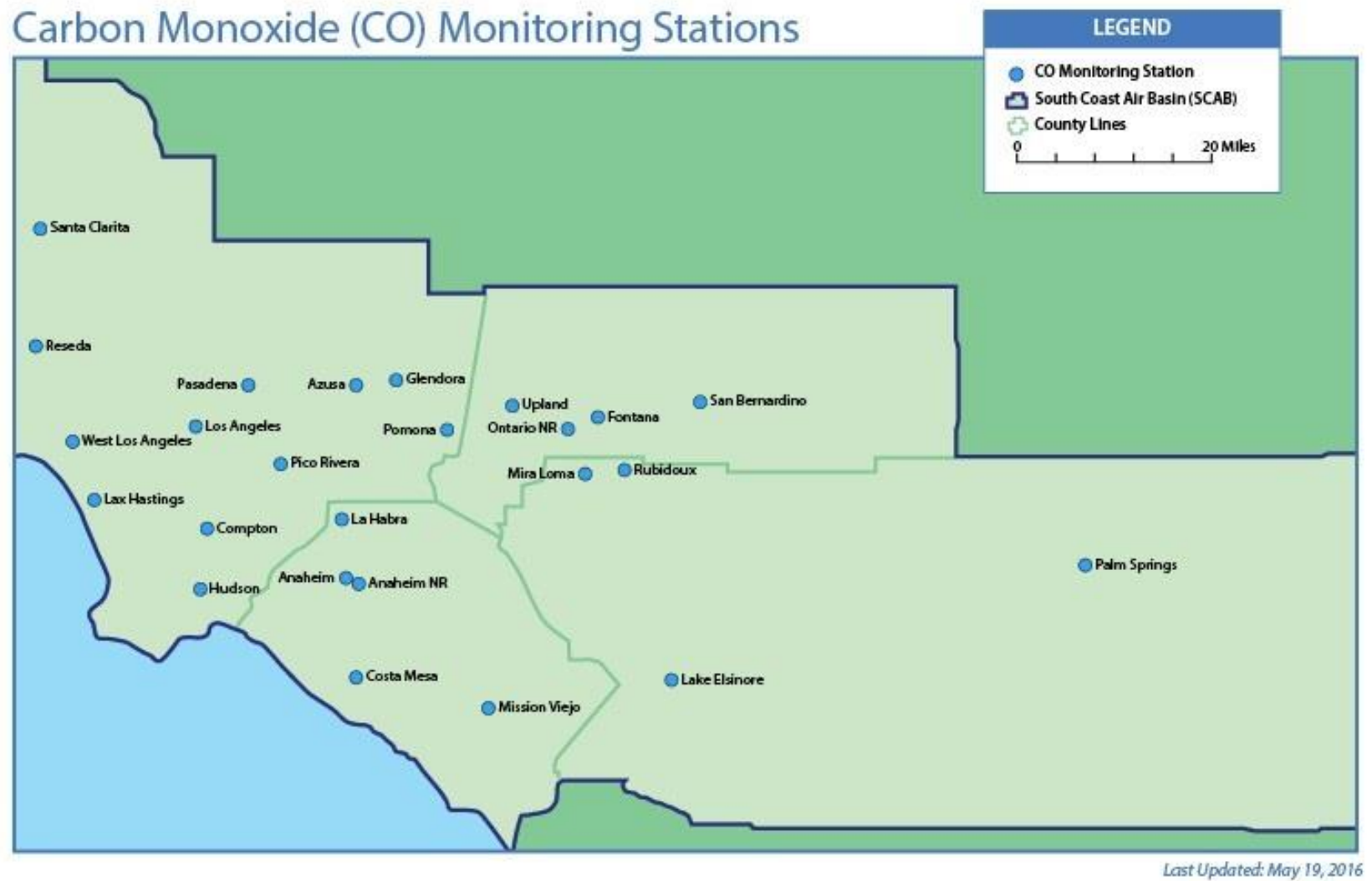


Figure 4 SCAQMD Monitoring Locations for Carbon Monoxide

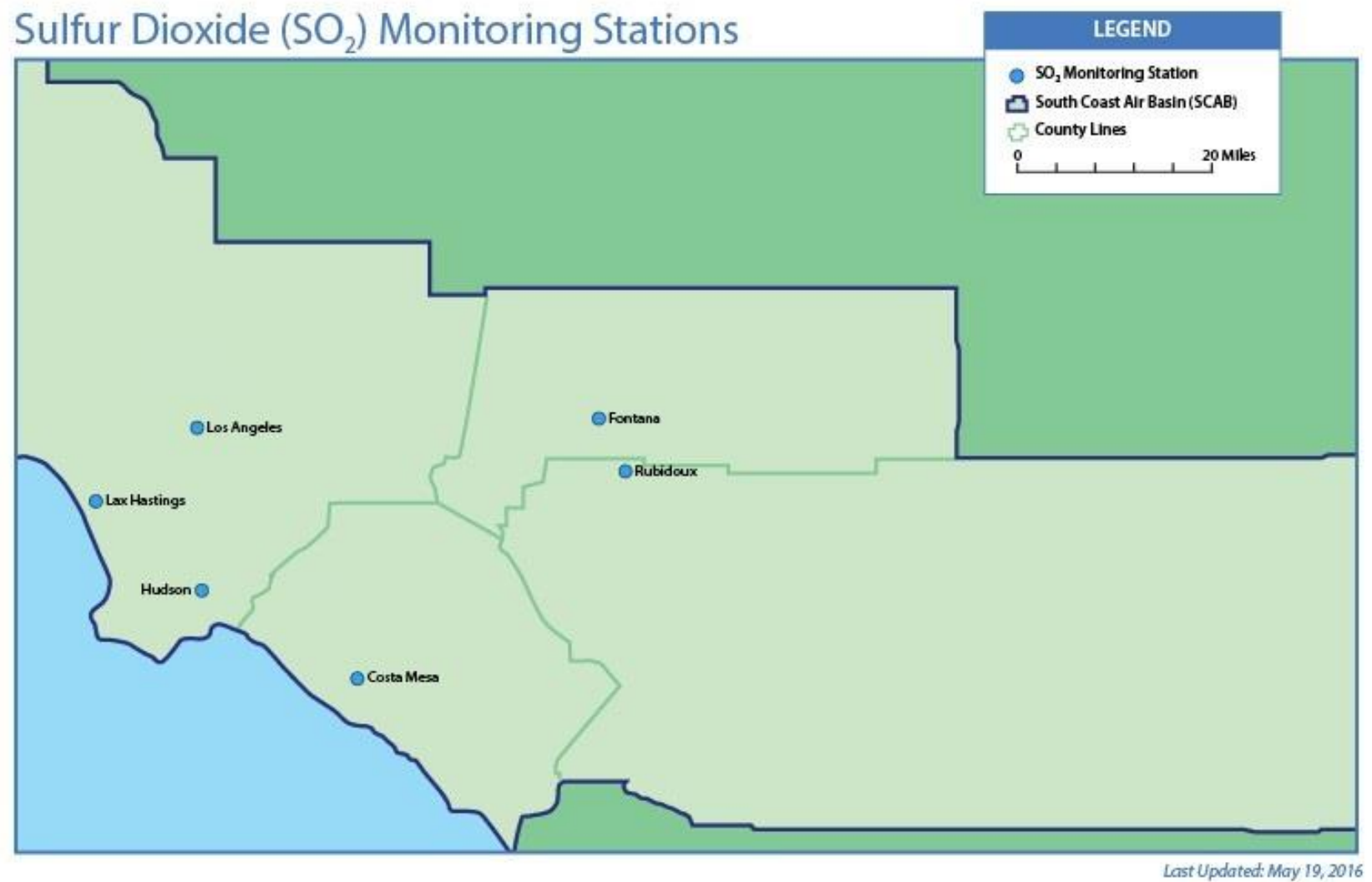


Figure 5 SCAQMD Monitoring Locations for Sulfur Dioxide

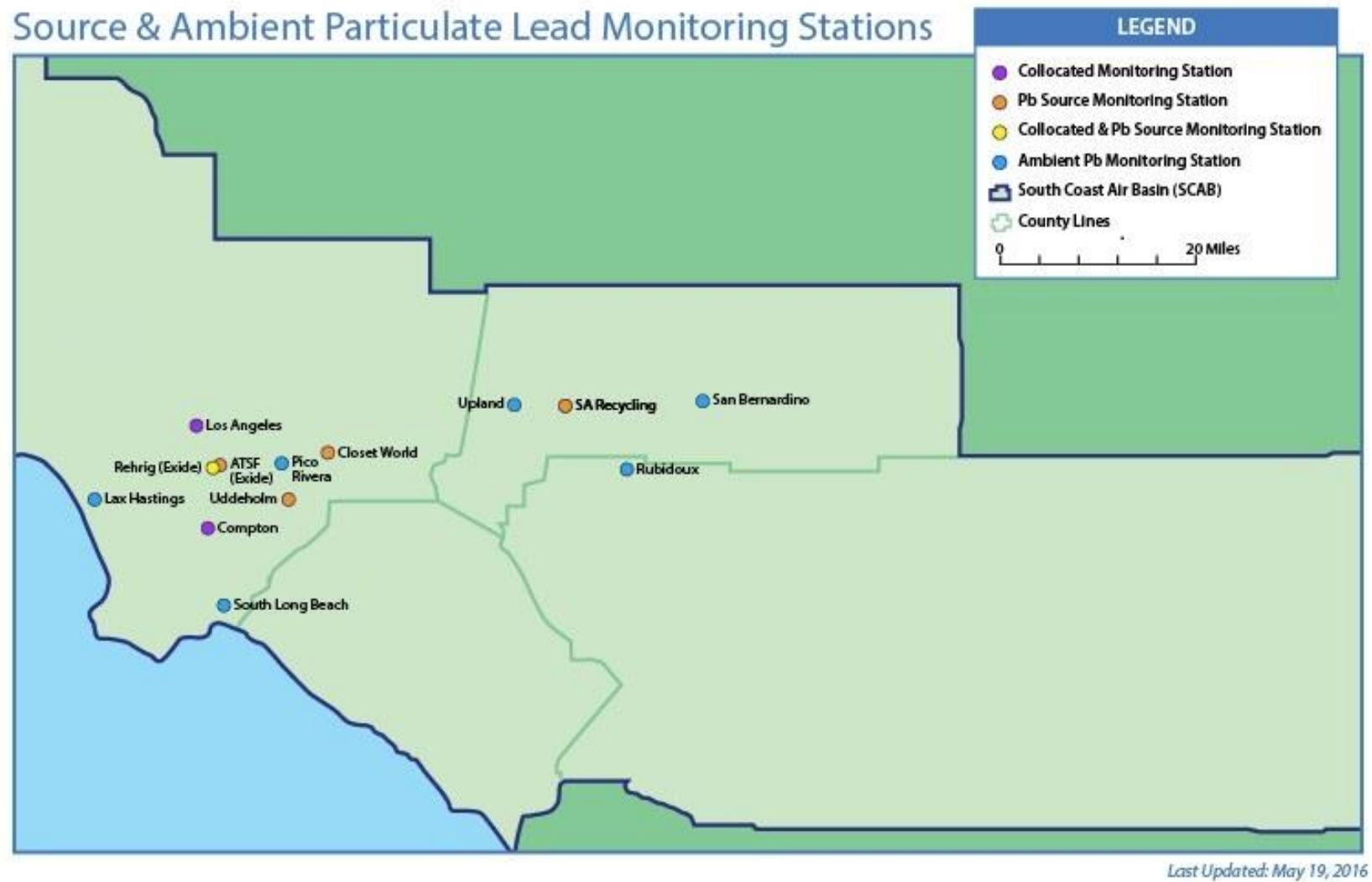


Figure 6 SCAQMD Source and Ambient Particulate Lead Monitoring Locations

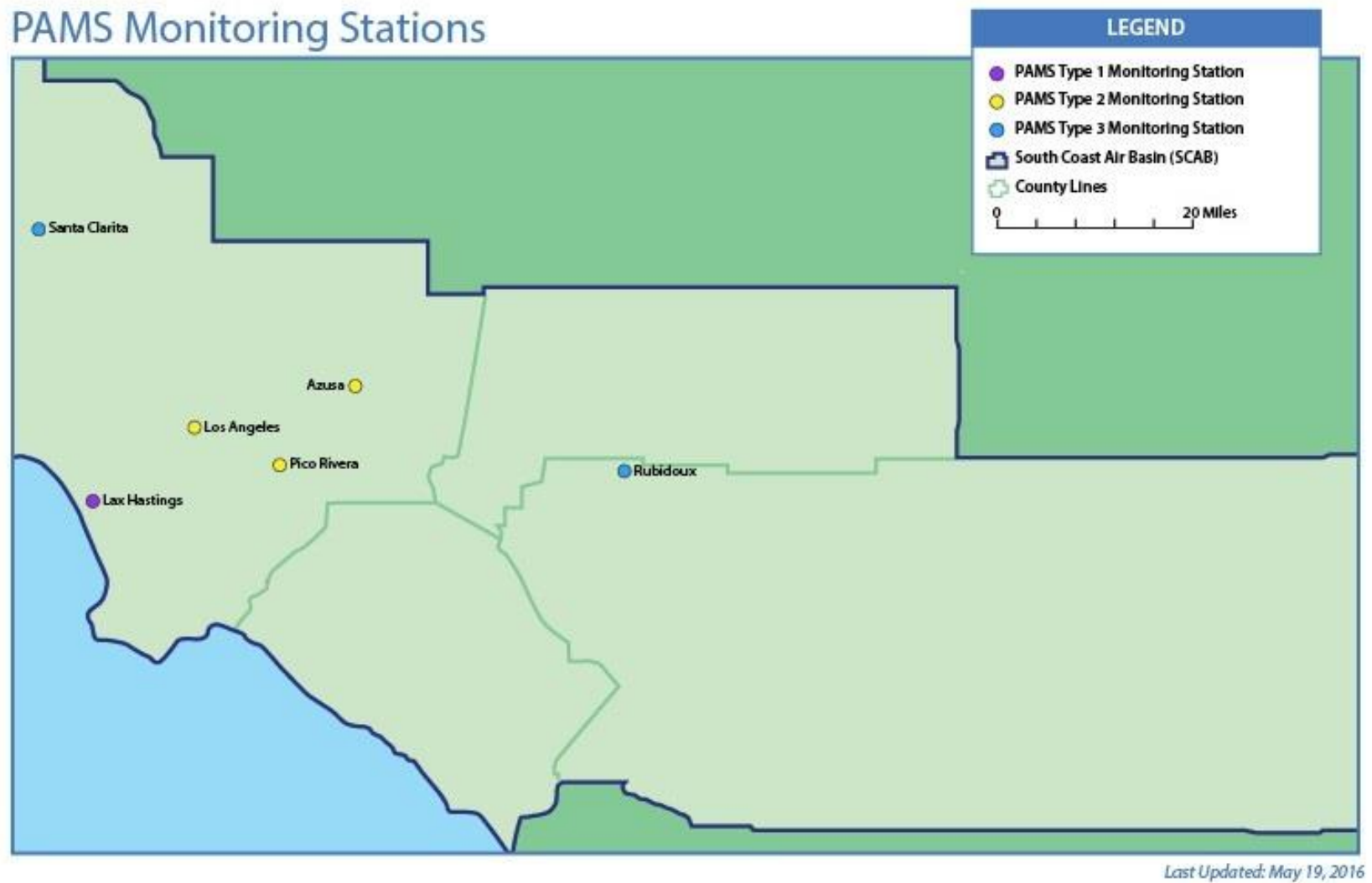


Figure 7 SCAQMD PAMS Monitoring Locations



Figure 8 SCAQMD PM2.5 Monitoring Locations

Air Quality Monitoring Network Plan – July 1, 2017

DRAFT 2016		2016 AIR QUALITY SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT																				
		Carbon Monoxide a)			Ozone b)										Nitrogen Dioxide c)				Sulfur Dioxide d)			
					Number of Days Standard Exceeded																	
		No. Days of Data	Max Conc. in ppm 1-hour	Max Conc. in ppm 8-hour	No. Days of Data	Max. Conc. in ppm 1-hour	Max. Conc. in ppm 8-hour	Fourth High Conc. in ppm 8-hour	Old Federal > 0.124 in ppm 1-hour	Current Federal > 0.070 in ppm 8-hour	2008 Federal > 0.075 in ppm 8-hour	1997 Federal > 0.084 in ppm 8-hour	Current State > 0.09 in ppm 1-hour	Current State > 0.070 in ppm 8-hour	No. Days of Data	Max Conc. in ppb 1-hour	98 th Percentile Conc. in ppb 1-hour	Annual Average AAM Conc. in ppb	No. Days of Data	Max. Conc. in ppb 1-hour	99 th Percentile Conc. in ppb 1-hour	
Source/Receptor Area No.	Location	Station No.																				
LOS ANGELES COUNTY																						
1	Central LA	087	361	1.9	1.4	364	0.103	0.078	0.071	0	4	1	0	2	4	366	64.7	61	34.3	366	13.4	2.5
2	Northwest Coastal LA County	091	366	2.2	1.1	365	0.085	0.073	0.066	0	2	0	0	0	2	366	54.5	49.3	24.8	--	--	--
3	Southwest Coastal LA County	820	362	1.6	1.3	361	0.087	0.080	0.067	0	2	1	0	0	3	348	81.5	54.7	24.4	363	9.7	5.7
4	South Coastal LA County 1	072	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	South Coastal LA County 2	077	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	South Coastal LA County 3	033	363	3.3	2.2	365	0.079	0.059	0.055	0	0	0	0	0	0	366	75.6	66.3	31.7	366	17.8	12.0
4	I-710 Near Road#	032	--	--	--	--	--	--	--	--	--	--	--	--	--	366	95.3	76.6	39.9	--	--	--
6	West San Fernando Valley	074	366	2.4	1.9	364	0.122	0.098	0.086	0	23	14	4	9	23	355	55.5	45.9	24.7	--	--	--
8	West San Gabriel Valley	088	366	1.5	1	358	0.126	0.090	0.082	1	18	15	3	12	19	366	71.9	58.4	27.8	--	--	--
9	East San Gabriel Valley 1	060	366	1.3	1.2	366	0.146	0.106	0.095	4	39	25	10	30	40	366	74.2	58.3	28.5	--	--	--
9	East San Gabriel Valley 2	591	364	1.1	1	362	0.148	0.114	0.098	6	52	31	16	38	55	365	65.4	45.7	21.0	--	--	--
10	Pomona/Walnut Valley	075	361	1.7	1.3	360	0.127	0.092	0.087	1	26	14	5	20	29	360	69.3	62.5	34.3	--	--	--
11	South San Gabriel Valley	085	366	2.8	1.7	359	0.111	0.081	0.074	0	6	2	0	9	6	361	63.2	60.1	32.4	--	--	--
12	South Central LA County	112	366	4.4	3.9	365	0.098	0.071	0.064	0	1	0	0	1	1	366	63.7	58.4	28.9	--	--	--
13	Santa Clarita Valley	090	366	1.3	1.1	366	0.130	0.115	0.100	2	57	35	15	29	59	361	46.4	39.4	21.7	--	--	--
ORANGE COUNTY																						
16	North Orange County	3177	366	3.1	1.5	365	0.103	0.078	0.075	0	6	3	0	3	7	359	60.4	51.5	25.1	--	--	--
17	Central Orange County	3176	355	2.6	2.1	354	0.103	0.074	0.071	0	4	0	0	2	4	354	64.3	56.7	27.4	--	--	--
17	I-5 Near Road#	3131	360	3.7	2.2	--	--	--	--	--	--	--	--	--	--	357	75.2	60.1	34.4	--	--	--
18	North Coastal Orange County	3195	366	2.1	1.7	366	0.090	0.069	0.065	0	0	0	0	0	0	349	59.8	51.2	20.0	366	3.3	2.1
19	Saddleback Valley	3812	353	1.3	0.7	365	0.122	0.093	0.079	0	13	6	3	5	13	--	--	--	--	--	--	--
RIVERSIDE COUNTY																						
22	Corona/Norco Area	4155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	Metropolitan Riverside County 1	4144	359	1.7	1.3	357	0.142	0.104	0.097	1	69	47	20	33	71	366	73.1	52.2	28.2	366	5.6	2.0
23	Metropolitan Riverside County 3	4165	366	1.9	1.4	365	0.140	0.106	0.095	1	65	43	23	34	70	366	64.9	48.3	25.2	--	--	--
24	Perris Valley	4149	--	--	--	366	0.131	0.098	0.092	1	55	30	11	23	56	--	--	--	--	--	--	--
25	Elsinore Valley	4158	298*	1.2	0.6	360	0.124	0.093	0.087	0	44	25	7	15	45	345*	51.3	35.6	19.1	--	--	--
26	Temecula Valley	4031	--	--	--	355	0.092	0.081	0.077	0	19	6	0	0	20	--	--	--	--	--	--	--
29	San Geronimo Pass	4164	--	--	--	358	0.128	0.106	0.094	1	52	39	14	26	54	348	46.9	42.6	22.4	--	--	--
30	Coachella Valley 1**	4137	361	3.1	1.5	363	0.103	0.092	0.087	0	46	20	4	6	48	363	42.6	34.4	15.3	--	--	--
30	Coachella Valley 2**	4157	--	--	--	331	0.099	0.089	0.081	0	27	12	2	3	29	--	--	--	--	--	--	--
30	Coachella Valley 3**	4032	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAN BERNARDINO COUNTY																						
32	Northwest San Bernardino Valley	5175	366	1.7	1.3	366	0.156	0.116	0.110	10	88	65	33	53	89	366	70.1	55.1	29.0	--	--	--
33	I-10 Near Road#	5035	366	1.7	1.3	--	--	--	--	--	--	--	--	--	--	362	93.4	74.3	42.8	--	--	--
33	CA-60 Near Road#	5036	--	--	--	--	--	--	--	--	--	--	--	--	--	361	89.8	71.3	43.9	--	--	--
34	Central San Bernardino Valley 1	5197	359	1.7	1	362	0.139	0.105	0.098	3	49	39	16	34	52	357	71.7	56.4	31.9	363	6.3	2.0
34	Central San Bernardino Valley 2	5203	358	2.2	1.7	366	0.158	0.118	0.114	10	106	76	41	70	108	355	60.1	51.4	29.5	--	--	--
35	East San Bernardino Valley	5204	--	--	--	364	0.145	0.119	0.103	3	97	71	40	55	100	--	--	--	--	--	--	--
37	Central San Bernardino Mountains	5181	--	--	--	365	0.163	0.121	0.116	9	101	80	54	64	103	--	--	--	--	--	--	--
38	East San Bernardino Mountains	5818	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DISTRICT MAXIMUM			4.4	3.9		0.163	0.121	0.116	10	106	80	54	70	108		95.3	76.6	43.9		17.8	12.0	
SOUTH COAST AIR BASIN			4.4	3.9		0.163	0.121	0.116	17	132	103	63	83	132		95.3	76.6	43.9		17.8	12.0	

* Incomplete data. ** Salton Sea Air Basin -- Pollutant not monitored
ppm – Parts Per Million parts of air, by volume
ppb – Parts Per Billion parts of air, by volume
AAM – Annual Arithmetic Mean
a) The federal and state 8-hour CO standards (9 ppm and 9.0 ppm) were not exceeded. The federal and state 1-hour CO standards (35 ppm and 20 ppm) were not exceeded, either.
b) The current (2015) O₃ federal standard was revised effective December 28, 2015.
c) The NO₂ federal 1-hour standard is 100 ppb and the annual standard is annual arithmetic mean NO₂ > 0.0534 ppm (53.4 ppb). The state 1-hour and annual standards are 0.18 ppm and 0.030 ppm.
d) The federal SO₂ 1-hour standard is 75 ppb (0.075 ppm). The state standards are 1-hour average SO₂ > 0.25 ppm (250 ppb) and 24-hour average SO₂ > 0.04 ppm (40 ppb).
Four near-road sites measuring one or more of the pollutants PM_{2.5}, CO and/or NO₂ are operating near the following freeways: I-5, I-10, CA-60 and I-710.

For information on the current standard levels and most recent revisions please refer to "Appendix II – Current Air Quality" of the "2016 AQMP" which can be accessed at <http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2016-air-quality-management-plan/final-2016-aqmp-appendix-ii.pdf?sfvrsn=4>. Maps showing the source/receptor area boundaries can be accessed via the Internet by entering your address in the AQMD Current Hourly Air Quality Map at <http://www2.aqmd.gov/webapp/gis/qi2/VEMap3D.aspx>. A printed map or copy of the AQMP Appendix II is also available free of charge from the AQMD Public Information Center at 1-800-CUT-SMOG.

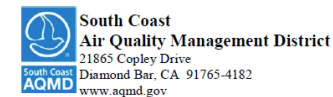


Figure 9 SCAQMD 2016 Air Quality Data Summary

Source/Receptor Area No. Location		Station No.	Suspended Particulates PM10 ^{e)}					Fine Particulates PM2.5 ^{g)}					Lead ^{h)}		PM10 Sulfate ^{j)}		
			No. Days of Data	Max. Conc. in µg/m ³ 24-hour	No. (%) Samples Exceeding Standards		Annual Average Conc. ^{f)} (AAM) µg/m ³	No. Days of Data	Max. Conc. in µg/m ³ 24-hour	98 th Percentile Conc. in µg/m ³ 24-hour	No. (%) Samples Exceeding Federal Std > 35 µg/m ³ 24-hour	Annual Average Conc. ^{h)} (AAM) µg/m ³	Max. Monthly Average Conc. µg/m ³	Max. 3-Months Rolling Averages µg/m ³	No. Days of Data	Max. Conc. in µg/m ³ 24-hour	
					Federal	State											Federal Std
2016																	
2016 AIR QUALITY SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT																	
LOS ANGELES COUNTY																	
1	Central LA	087	277*	67	0	18(6%)	32.4	357	44.39	27.3	2(0.6%)	11.83	0.016	0.01			
2	Northwest Coastal LA County	091	--	--	--	--	--	--	--	--	--	--	--	--			
3	Southwest Coastal LA County	820	60	43	0	0(0%)	21.6	--	--	--	--	--	0.006	0.01			
4	South Coastal LA County 1	072	--	--	--	--	--	356	29.37	23.56	0	10.36	--	--			
4	South Coastal LA County 2	077	60	56	0	3(5%)	27.8	350	28.93	22.05	0	9.62	0.008	0.01			
4	South Coastal LA County 3	033	59	75	0	8(14%)	31.9	--	--	--	--	--	--	--			
4	I-710 Near Road [#]	032	--	--	--	--	--	352	33.31	26.09	0	12.03	--	--			
6	West San Fernando Valley	074	--	--	--	--	--	113	30.05	24.59	0	9.23	--	--			
8	West San Gabriel Valley	088	--	--	--	--	--	119	29.21	25.38	0	9.59	--	--			
9	East San Gabriel Valley 1	060	60	74	0	12(20%)	33.7	122	32.17	29.01	0	10.15	--	--			
9	East San Gabriel Valley 2	591	362	74	0	21(6%)	29.8	--	--	--	--	--	--	--			
10	Pomona/Walnut Valley	075	----	----	--	--	--	--	--	--	--	--	--	--			
11	South San Gabriel Valley	085	--	--	--	--	--	120	46.59	25.13	2(1.7%)	11.75	0.011	0.01			
12	South Central LA County	112	--	--	--	--	--	115	36.35	26.35	1(0.9%)	11.13	0.016	0.01			
13	Santa Clarita Valley	090	60	96	0	1(2%)	23.4	--	--	--	--	--	--	--			
ORANGE COUNTY																	
16	North Orange County	3177	--	--	--	--	--	--	--	--	--	--	--	--			
17	Central Orange County	3176	353	74	0	3(1%)	24.4	349	44.45	24.02	1(0.3%)	9.47	--	--			
17	I-5 Near Road [#]	3131	--	--	--	--	--	--	--	--	--	--	--	--			
18	North Coastal Orange County	3195	--	--	--	--	--	--	--	--	--	--	--	--			
19	Saddleback Valley	3812	59	59	0	1(2%)	21.0	117	24.79	13.41	0	7.36	--	--			
RIVERSIDE COUNTY																	
22	Corona/Norco Area	4155	51*	62	0	7(14%)	31.7	--	--	--	--	--	--	--			
23	Metropolitan Riverside County 1	4144	302*	82	0	58(19%)	36.9	357*	39.12	31.65	4(1.1%)	12.54	0.007	0.01			
23	Metropolitan Riverside County 3	4165	356*	116	0	175(49%)	49.0	352*	45.64	35.14	6(1.7%)	14.02	--	--			
24	Perris Valley	4149	57	76	0	5(9%)	32.2	--	--	--	--	--	--	--			
25	Elsinore Valley	4158	366	99	0	4(1%)	21.4	--	--	--	--	--	--	--			
26	Temecula Valley	4031	--	--	--	--	--	--	--	--	--	--	--	--			
29	San Geronimo Pass	4164	57	65	0	3(5%)	24.0	--	--	--	--	--	--	--			
30	Coachella Valley 1**	4137	355*	113	0	6(2%)	20.8	112	14.71	12.43	0	5.53	--	--			
30	Coachella Valley 2**	4157	313**	137	0	56(18%)	36.9	115	25.84	15.04	0	7.74	--	--			
30	Coachella Valley 3**	4032	272**	150	0	76(28%)	43.0	--	--	--	--	--	--	--			
SAN BERNARDINO COUNTY																	
32	Northwest San Bernardino Valley	5175	363	72	0	5(1%)	25.0	--	--	--	--	--	0.007	0.01			
33	I-10 Near Road [#]	5035	--	--	--	--	--	--	--	--	--	--	--	--			
33	CA-60 Near Road [#]	5036	--	--	--	--	--	347**	44.14	33.02	6(1.7%)	14.73	--	--			
34	Central San Bernardino Valley 1	5197	61	94	0	15(25%)	38.1	111*	30.45	26.25	0	12.04	--	--			
34	Central San Bernardino Valley 2	5203	333*	91	0	33(10%)	33.1	113*	32.54	27.12	0	10.84	0.010	0.01			
35	East San Bernardino Valley	5204	56	72	0	4(7%)	27.8	--	--	--	--	--	--	--			
37	Central San Bernardino Mountains	5181	61	46	0	0(0%)	17.1	--	--	--	--	--	--	--			
38	East San Bernardino Mountains	5818	--	--	--	--	--	55	28.42	22.14	0	6.83	--	--			
DISTRICT MAXIMUM				150*	0*	175*	49.0*		46.6*	35.1*	6*	14.73*	0.016**	0.01**			
SOUTH COAST AIR BASIN				116*	0*	181*	49.0*		46.6*	35.1*	9*	14.73*	0.016**	0.01**			

* Incomplete data due to the site improvement. ** Salton Sea Air Basin µg/m³ – Micrograms per cubic meter of air AAM – Annual Arithmetic Mean -- Pollutant not monitored

e) PM10 statistics listed above are based on combined Federal Reference Method (FRM) and Federal Equivalent Method (FEM) data.

f) State annual average (AAM) PM10 standard is > 20 µg/m³. Federal annual PM10 standard (AAM > 50 µg/m³) was revoked in 2006.

g) PM2.5 statistics listed above are for the FRM data only. FEM PM2.5 continuous monitoring instruments were operated at some of the above locations for real-time alerts and forecasting only.

h) Both Federal and State standards are annual average (AAM) > 12.0 µg/m³.

i) Federal lead standard is 3-months rolling average > 0.13 µg/m³; state standard is monthly average ≥ 1.5 µg/m³. Lead standards were not exceeded.

j) State sulfate standard is 24-hour ≥ 25 µg/m³. There is no federal standard for sulfate. Sulfate data is not available at this time.

+ High PM10 (≥ 155 µg/m³) data recorded in Coachella Valley (due to high winds) and PM2.5 data recorded in the Basin (due to Independence Day fireworks) are excluded in accordance with the U.S. EPA Exceptional Event Rule.

++ Higher lead concentrations were recorded at near-source monitoring sites immediately downwind of stationary lead sources. Maximum monthly and 3-month rolling averages recorded were 0.088 µg/m³ and 0.06 µg/m³, respectively.

Four near-road sites measuring one or more of the pollutants PM2.5, CO and/or NO2 are operating near the following freeways: I-5, I-10, CA-60 and I-710.



Figure 9 SCAQMD 2015 Air Quality Data Summary Continued